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| APPLICATION NO.  | FILING DATE   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |
|--|---------------|----------------------|-------------------------|------------------|
| 09/805,600   | 03/13/2001    | Keiji Yuzawa         | SONYJP 3.0-145          | 9300             |
| 75   | 90 12/28/2004 |                      | EXAM                    | INER             |
| LERNER, DAVID, LITTENBERG,<br>KRUMHOLZ & MENTLIK, LLP<br>600 SOUTH AVENUE WEST |               |                      | AKLILU, KIRUBEL         |                  |
|  |               |                      | ART UNIT                | PAPER NUMBER     |
| WESTFIELD,   | NJ 07090-1497 |                      | 2614                    |                  |
|  |               |                      | DATE MAILED: 12/28/2004 |                  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |  | Application No.                          | Applicant(s)                 |  |  |  |
|--|--|--|------------------------------|--|--|--|
| Office Action Summary  |  | 09/805,600                               | YUZAWA, KEIJI                |  |  |  |
|  |  | Examiner                                 | Art Unit                     |  |  |  |
|  |  | Kirubel Aklilu                           | 2614                         |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply   |  |  |                              |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |  |                              |  |  |  |
| Status   |  |  |                              |  |  |  |
| 1) Responsive to communication(s) filed on 13 March 2001.  |  |  |                              |  |  |  |
|  | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.     |  |                              |  |  |  |
| 3)☐ Since this a   | · —  |  |                              |  |  |  |
| Disposition of Claim   | ns   |  |                              |  |  |  |
| 4) Claim(s) 1-10 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1-10 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.  |  |  |                              |  |  |  |
| Application Papers   |  |  |                              |  |  |  |
| <ul> <li>9) ☐ The specification is objected to by the Examiner.</li> <li>10) ☐ The drawing(s) filed on 13 March 2001 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).</li> <li>11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.</li> </ul>  |  |  |                              |  |  |  |
| Priority under 35 U.   | S.C. § 119   |  |                              |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.   |  |  |                              |  |  |  |
|  | on's Patent Drawing Review (PTO-948)                             | 4) Interview Summary Paper No(s)/Mail Do | ate                          |  |  |  |
| 3) 🔀 Information Disclose Paper No(s)/Mail Da  | ure Statement(s) (PTO-1449 or PTO/SB/08) ate <u>11/13/2003</u> . | 6) Other:                                | Patent Application (PTO-152) |  |  |  |

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2,and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ebisawa (U.S. Patent # 5,886,731).

1. As for **Claim 1**, Ebisawa teaches a digital signal receiver, comprising:

A reception processor operable to receive a broadcast signal containing information data (see Ebisawa Fig. 11 unit 202 RECEIVING UNIT, unit 201 RECEIVING STATE INFORMATION TRANSMITTING UNIT, unit 203 and unit 204 SELECTING UNIT, unit 209 CONTROL UNIT, col. 8 lines 24-31 "the receiving unit 202 receives the signal transmitted from the AV data transmitting apparatus 100a, separates the multiplexed signals of the channels, and outputs . . .") and to cause said information data to be displayed on a display unit by using a browser (see Ebisawa Fig. 11 unit 200a and 300 Monitor, col. 7 line 66 – col. 8 line 5 "the AV (Audio/Video) data receiving apparatus 200a has connected to it a monitor 300 and a command input unit 301. The viewer selects a desired program

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and . . . views the program and CMs (commercials) displayed on the monitor 300"); and

A distributed information storage unit operable to obtain said information data from said reception processor (see Ebisawa Fig. 4 200a unit 205 COMMUNICATION CODE DECODER, 207 STORING UNIT, and unit 208 IMAGE DECODER, col. 8 lines 38-53 "the communication code decoder 205 decodes the reception signal inputted from the selecting unit 203 . . . and outputs the result to the storing unit 207 . . . it is possible for the storing unit 207 to pass the input data there through and immediately output the same to the image decoder 208.")), to store said information data in a data storage device (see col. 8 lines 42-44 "the storing unit 207 is a storage means for storing the program data stream and CM data stream inputted from the communication code decoder 205."), to read said information data in a data storage device (see col. 8 lines 54-56 "the image decoder 208 successively reads the program data and CM data stored in the storing unit 207 based on the control signal . . . "), and to supply said read information data to said reception processor for display (see col. 8 lines 54-64 "the image decoder 208 successively reads the program data and CM data stored in the storing unit 207 and decodes that video data. The decoded program data of the video data is outputted from the AV data receiving apparatus 200a and is outputted so that it can be

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viewed by the monitor 300."), said distributed information storage unit including

A period separating unit operable to separate from said information data one period of data having an amount of data corresponding to plural periods which are periodically contained in said broadcast signal (see Ebisawa Fig. 7A – 7C, col. 14 lines 4-28 "in the multiplexing unit 109, part of the data of the CMs read from the CM data storing unit 105 is inserted in the vertical synchronization of the video data . . . more specifically, as shown in FIG. 7A, the 20 lines worth of the CM data are inserted during one field of the program data" and col. 14 lines 25-29 "Fig. 7C, it becomes possible to multiplex one CM of 15 seconds with program data of length of 225 seconds, and four CMs of 15 seconds with program data of 15 minutes" and Fig. 11 unit 203 FIRST SELECTING UNIT and unit 204 SECOND SELECTING UNIT, col. 15 lines 29-48 "The first selecting unit 203 selects the signal of the channel through which the program of the main object of the transmission is transmitted from among the signals unit 202 and outputs the result to the first communication code decoder 205. Further, the second selecting unit 204 always selects the signal of the channel through which the AV data of the CMs is transmitted from among the signals of a plurality of channels received at the receiving unit 202 and outputs the result to the second communication code decoder 206. "). The teaching in Fig. 7A- 7C and col. 14 lines 4-28 is interpreted to

represent one period of data having an amount of data corresponding to plural periods which are periodically contained in said broadcast signal.

For instance, with respect to Fig. 7B, col. 14 line 19-24 teaches "the audio data and control information for a frame of the CM become an amount of information that can be transmitted by 3 frames worth of the program data" is interpreted as one period of data (one frame of the CM) having an amount of data corresponding to plural periods (3 frames worth of the program data). The period separating unit is interpreted as unit 203 FIRST SELECTING UNIT and unit 204 SECOND SELECTING UNIT because these units separate the CM frames from the data program frames and stores the CM separately into a storing unit and separates the program data and stores it separately in a storing unit as well (see col. 15 lines 29-40); and

A periodizing unit operable to process said one period of data into periodized information data having said plural periods (see col. 15 line 49 – col. 16 line 19, "In the storing unit 207, when the time becomes 0:00, first, the CM data inputted from the second communication code decoder 206 is outputted to the image decoder 208 as it is for 30 seconds. During this time, the AV data of the desired program inputted from the first communication code decoder 205 is stored in the storing unit 207. When the CM is outputted for 30 seconds and the time becomes 0:00:30, the storing unit 207 starts the output of the AV data of the desired program of

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30 seconds which was received from the time 0:00 and has been already stored in the storing unit 207 . . . when the time becomes 0:30, the storing unit 207 selects the AV data of the CMs inputted from the second communication code decoder 206 again and outputs this to the image decoder 208. . . By doing this, the AV data can be outputted in the form as shown in Fig. 5B"). As is shown in Fig. 5B, CMs are inserted periodically into the program A, thus the storage unit 207 and image decoder 208 are interpreted as a periodizing unit operable to process said one period of data into periodized information data having said plural periods.

- 2. As for Claim 2, Ebisawa teaches the digital signal receiver as claimed in claim 1, wherein said distributed information storage unit includes said data storage device (see Fig. 11 unit 200a receiving apparatus and unit 207 Storing Unit, col. 8 lines 42-44 "the storing unit 207 is a storage means for storing the program data stream and CM data stream inputted from the communication code decoder 205.").
- 3. As for Claim 8, it is a method claim corresponding to the apparatus Claim 1.
  Therefore, Claim 8 is analyzed and rejected as previously discussed with respect to Claim 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebisawa (U.S. Patent # 5,886,731).

4. As for Claim 3, although Ebisawa does not expressly teach said distributed information storage unit further includes a table-of-contents generating unit operable to generate a menu frame representing plural information items contained in said read information data, Ebisawa does teach a command input unit 301 that allows the user to select a program and a method of insertion of CMs (see Fig. 11 unit 301 Command Input Unit, col. 8 lines 1-5 "The viewer selects a desired program and a method of insertion of CMs with respect to that program, the amount of insertion, and the type of CMs by the command input unit 301 and views the program and CMs displayed in the monitor 300"). However, Official Notice is taken that it is well known in the art to have a table-of-contents generating unit operable to generate a menu frame representing plural information items contained in said read information data. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have the distributed information storage unit taught in Ebisawa to further include a table-of-contents generating unit operable to generate a menu frame

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representing plural information items contained in said read information data.

One would have been motivated to do this in order to have visual means (such as a menu frame) for the user to efficiently select a desired program and a method of insertion of CMs with respect to that program.

- 5. As for Claim 4, the modified Ebisawa teaches the table-of-contents generating unit is operable to generate said menu frame for each user by inputting preference information for each said user (see Ebisawa col. 8 lines 1-5 "The viewer selects a desired program and a method of insertion of CMs with respect to that program, the amount of insertion, and the type of CMs by the command input unit 301 and views the program and CMs displayed in the monitor 300"). As a viewer selects a desired program and a method of insertion of CMs with respect to that program, a user is inputting his/her preference information.
- 6. As for Claim 5, the modified Ebisawa teaches the table-of-contents generating unit is operable to generate said menu frame by inputting information on priorities of contents, which a user wants to watch/listen to (see Ebisawa col. 8 lines 1-5 "The viewer selects a desired program and a method of insertion of CMs with respect to that program, the amount of insertion, and the type of CMs by the command input unit 301 and views the program and CMs displayed in the monitor 300"). The selection that a user makes above (such as what channel to watch among a plurality of channels, the method of insertion of CMs among a plurality of methods of insertion of CMs, and the type of CMs among a plurality of CMs) is interpreted to be information based on priorities of contents, because it is

interpreted that the user will naturally make his selection based on his/her personal priority of the contents presented to him/her.

Claims 6-7 and 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ebisawa (U.S. Patent # 5,886,731) in view of Son et al. (U.S. patent number 6,229,895).

7. As for Claim 6, Ebisawa does not expressly teach that said reception processor includes an encryption unit operable to encrypt said information data before said information data is obtained by said distributed information storage unit.
However, Ebisawa does teach said distributed information storage unit further includes a decryption unit (see Ebisawa Fig. 11 unit 208 IMAGE DECODER, col. 8 lines 54-57 "The image decoder 208 successively reads the program data and CM data stored in the storing unit 207 based on the control signal from the control unit 209 and decodes that video data") operable to decrypt said information data obtained from said reception processor. Son et al however teach a method of securing video distribution system wherein a remote server receives an encrypted video signal, decrypts the video signal, re-encrypts the video programming into a second encrypted form, and stores this video signal and transmits the encrypted signal until the encrypted signal is transmitted at the request of a client device (see Son et al. col. 1 lines 40-50 "a remote server receives video programming in a first encrypted form, decrypts the video

programming, re-encrypts the video programming into a second encrypted form, and then stores the video programming in the second encrypted form . . ."). In light of the teaching of Son et al., it would have been obvious to one of ordinary skill in the art to modify the reception processor unit and distributed information unit of Ebisawa to include an encryption and decryption unit to respectively encrypt and decrypt said information data before it is transferred from the reception processor to the distributed information storage unit and vice versa. One would have been motivated to do this in order to add an extra level of security to impede a possible unauthorized interception of said information data between the reception processor unit and distributed storage unit (see Son et al. col. 1 lines 10-25).

8. As for Claim 7, Claim 7 differs from Claim 6 in that said distribution information storage unit further includes an encryption unit operable to encrypt said periodized information data before said periodized information data is supplied to said reception processor, and said reception processor includes a decryption unit operable to decrypt said periodized information data supplied from said distributed information storage unit. In light of the discussion presented above in Claim 6, it would have also been obvious to one of ordinary skill in the art to modify the distribution information storage unit to further include an encryption unit operable to encrypt said periodized information data before said periodized information data is supplied to said reception processor, and to also modify said reception processor to include a decryption unit operable to decrypt

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said periodized information data supplied from said distribution information storage unit. One would have been motivated to do this in order to add an extra level of security to impede a possible unauthorized interception of said periodized information data between the distributed storage unit and reception processor unit (see Son et al. col. 1 lines 10-25)

- 9. As for **Claim 9**, claim 9 is analyzed with respect to claim 6 and is rejected accordingly.
- 10. As for **Claim 10**, claim 10 is analyzed with respect to claim 7 and is rejected accordingly.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kirubel Aklilu whose telephone number is 703-305-8144. The examiner can normally be reached on 9:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Miller can be reached on 703-305-4795. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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KA 12/14/2004

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